WHAT IS CLAIMED IS:

1	1.	A method for the automatic configuration of a bi-directional Internet
2	Prot	ocol (IP) communication device, comprising:

- broadcasting a request for basic configuration details, where
 said request contains a unique bi-directional IP communication device
 identifier associated with a unique user;
 - receiving said basic configuration details from a server, where said basic configuration details are assigned to said unique user based on said unique bi-directional IP communication device identifier; and configuring said bi-directional IP communication device with
- 1 2. The method of claim 1, wherein said broadcasting further comprises
- 2 broadcasting said request for basic configuration details, including an IP
- 3 address, to a Dynamic Host Configuration Protocol (DHCP) server, where
- 4 said bi-directional IP communication device is a Digital Subscriber Line (DSL)
- 5 gateway.

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- 1 3. The method of claim 2, wherein said receiving comprises obtaining an
- 2 IP address from said DHCP server.
- 1 4. The method of claim 1, further comprising transmitting a configuration
- 2 request for additional configuration details.

said basic configuration details.

- 1 5. The method of claim 4, further comprising receiving said additional
- 2 configuration details specific to said unique user.
- 1 6. The method of claim 5, further comprising configuring said bi-
- 2 directional IP communication device with said additional configuration details.
- 1 7. The method of claim 1, further comprising, before said broadcasting
- 2 step, the steps of:

- 3 connecting said bi-directional IP communication device to an analog
- 4 telephone line; and
- 5 powering said bi-directional IP communication device on.
- 1 8. The method of claim 1, further comprising, before said broadcasting
- 2 step, the step of automatically detecting a DSL communication circuit.
- 1 9. The method of claim 1, further comprising, before said broadcasting
- 2 step, the step of automatically determining Permanent Virtual Circuit (PVC)
- 3 details for communications between said bi-directional IP communication
- 4 device and a communications network.
- 1 10. The method of claim 9, wherein said determining comprises the step of
- 2 ascertaining a VPI/VCI (Virtual Path Identifier/Virtual Channel Identifier) pair
- 3 for said communications.
- 1 11. The method of claim 1, wherein said broadcasting comprises
- 2 broadcasting a DHCP Discover request.
- 1 12. The method of claim 1, wherein said receiving comprises acquiring a
- 2 DHCP Offer message from a DHCP server.
- 1 13. The method of claim 1, further comprising, prior to said configuring
- 2 step, the steps of:
- 3 sending a DHCP Request message to said DHCP server; and
- 4 receiving a DHCP acknowledge message from said DHCP
- 5 server.
- 1 14. The method of claim 1, wherein said broadcasting and receiving steps
- 2 occur automatically without any communication between said bi-directional IP
- 3 communication device and a client computer coupled to said bi-directional IP
- 4 communication device.

1	15. The method of claim 1, further comprising, prior to said configuring	
2	step, the steps of:	
3	assigning said unique bi-directional IP communication device	
4	identifier to said bi-directional IP communication device; and	
5	associating said unique bi-directional IP communication device	
6	identifier with said unique user.	
1	16. The method of claim 15, further comprising generating a configuration	
2	table listing bi-directional IP communication device identifiers and associated	
3	users.	
1	17. A bi-directional IP communication device, comprising:	
2	a Central Processing Unit (CPU);	
3	communication circuitry;	
4	input/output ports; and	
5	a memory containing:	
6	a unique bi-directional IP communication device	
7	identifier;	
8	instructions for broadcasting a request for basic	
9	configuration details, where said request contains a unique bi-	
10	directional IP communication device identifier associated with a	ì
11	unique user;	
12	instructions for receiving said basic configuration details	
13	from a server, where said basic configuration details is assigne	d
14	to said unique user based on said unique bi-directional IP	
15	communication device identifier; and	
16	instructions for configuring said bi-directional IP	
17	communication device with said basic configuration details.	
1	18. The bi-directional IP communication device of claim 17, wherein said	
2	instructions for broadcasting further comprise instructions for	
3	broadcasting said request for basic configuration details, including an IP	
4	address, to a Dynamic Host Configuration Protocol (DHCP) server, where	

5	said bi-directional IP communication device is a Digital Subscriber Line (DSL)		
6	gateway.		
1	19. A computer program product for use in conjunction with a computer		
2	system for the automatic configuration of a bi-directional Internet Protocol (IP)		
3	communication device, the computer program product comprising a computer		
4	readable storage and a computer program stored therein, the computer		
5	program comprising:		
6	instructions for broadcasting a request for basic		
7	configuration details, where said request contains a unique bi-		
8	directional IP communication device identifier associated with a		
9	unique user;		
10	instructions for receiving said basic configuration details		
11	from a server, where said basic configuration details is assigned		
12	to said unique user based on said unique bi-directional IP		
13	communication device identifier; and		
14	instructions for configuring said bi-directional IP		
15	communication device with said basic configuration details.		

1 20. The computer program product of claim 19, wherein said instructions 2 for broadcasting further comprise instructions for broadcasting said request 3 for basic configuration details, including an IP address, to a Dynamic Host 4 Configuration Protocol (DHCP) server, where said bi-directional IP 5 communication device is a Digital Subscriber Line (DSL) gateway.